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## NOTICE OF ALLOWANCE AND FEE(S) DUE

23494

7500

02/10/2009

TEXAS INSTRUMENTS INCORPORATED P O BOX 655474, M/S 3999 DALLAS, TX 75265 EXAMINER
TSE, YOUNG TOI

DAPER MIMBER

ART UNIT

2611

DATE MAILED: 02/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,446	10/21/2003	Jie Liang	TI-36057	3703

TITLE OF INVENTION: RECEIVER WITH LOW POWER LISTEN MODE IN A WIRELESS LOCAL AREA NETWORK

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	05/11/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DIFF.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fec(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Alexandria, Virginia or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

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23494	have its own certificate of mailing or transmission. 7590 02/10/2009							
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P O BOX 655474, M/S 3999				States Postal Service with sufficient postage for first class mail in an envelope				
DALLAS, TX 75265				transi	hereby certify that this Fee(s) Transmittal is being deposited with the United states Postal Service with sufficient postage for first class mail in an envelope ddressed to the Mail Stop ISSUE FEE address above, or being facsimile ransmitted to the USPTO (571) 273-2885, on the date indicated below.			
								(Depositor's name)
				<u> </u>				(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TTOR ATTORNEY DOCKET NO. CONFIRMATION				CONFIRMATION NO.
10/690,446	10/21/2003		Jie Liang		TI-36057 3703			
TITLE OF INVENTION	: RECEIVER WITH LO	W POWER LISTEN MO	DDE IN A WIRELESS	LOC	AL AREA NETW	VORK		
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EXAM	INER	ART UNIT	CLASS-SUBCLASS	3				
	TSE, YOUNG TOI 2611							
<ol> <li>Change of corresponde CFR 1.363).</li> </ol>	ence address or indicatio	n of "Fee Address" (37	2. For printing on the patent front page, list					
	ondence address (or Cha 3/122) attached.	nge of Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a					
			(2) the name of a s	single / or as	firm (having as a zent) and the name	member		
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print o	or type	e)			
PLEASE NOTE: Unl	ess an assignee is ident h in 37 CFR 3.11. Com	ified below, no assignee	data will appear on the	he pat	tent. If an assign	ee is iden	ntified below, the d	ocument has been filed for
recordation as set forth in 37 CFŘ 3.11. Completion of this form iš NOT a substitute for filing an assignment.  (A) NAME OF ASSIGNEE  (B) RESIDENCE: (CITY and STATE OR COUNTRY)								
Please check the appropri	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🗆 Co	orporation	or other private gr	oup entity Government
4a. The following fee(s)	are submitted:	41	b. Payment of Fee(s): (	(Pleas	e first reapply ar	ıy previo	usly paid issue fee	shown above)
☐ Issue Fee			A check is enclosed.					
	to small entity discount p	permitted)	Payment by credit card. Form PTO-2038 is attached.					
☐ Advance Order - #	f of Copies		The Director is he overpayment, to I	ereby a Depos	authorized to char it Account Numbe	ge the rec	puired fee(s), any de (enclose a	eficiency, or credit any n extra copy of this form).
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Authorized Signature					Date			
Typed or printed name			Registration N	To				
This collection of inform an application. Confident submitting the complete this form and/or suggesti 1450, Alexandria, Virginia 223 Under the Paperwork Per	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this bu (irginia 22313-1450. DC 13-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the DNOT SEND FEES OR opersons are required to re-	on is required to obtain 1.14. This collection is depending upon the is the Chief Information O COMPLETED FORM	or re is estin individ officer IS TO	tain a benefit by the mated to take 12 r dual case. Any co , U.S. Patent and THIS ADDRESS	he public ninutes to mments Tradema S. SEND	which is to file (an o complete, includir on the amount of ti- k Office, U.S. Dep TO: Commissioner	d by the USPTO to process)  g gathering, preparing, and me you require to complete artment of Commerce, P.O. for Patents, P.O. Box 1450,



DALLAS, TX 75265

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United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.   CONFIRMATION N	
10/690,446	10/21/2003	Jie Liang	TI-36057	3703
23494 75	590 02/10/2009		EXAM	INER
TEXAS INSTRU	MENTS INCORPO	TSE, YOUNG TOI		
P O BOX 655474.	M/S 3999		ART UNIT	PAPER NUMBER

2611 DATE MAILED: 02/10/2009

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 738 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 738 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

	Application No.	Applicant(s)	
Al-41	10/690,446	LIANG, JIE	
Notice of Allowability	Examiner	Art Unit	
	YOUNG T. TSE	2611	
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. $\boxtimes$ This communication is responsive to <u>the amendment filed</u>	on 11 December 2008.		
2. X The allowed claim(s) is/are <u>1-3, 5-7, 9-11, 13-15, and 17-2</u>	<u>1</u> .		
<ol> <li>Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> </ol>	nder 35 U.S.C. § 119(a)-(d) or (f).		
<ol> <li>Certified copies of the priority documents have</li> </ol>	been received.		
<ol><li>Certified copies of the priority documents have</li></ol>	been received in Application No	·	
<ol><li>Copies of the certified copies of the priority do</li></ol>	cuments have been received in this	national stage applica	tion from the
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	quirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	at be submitted.		
(a) ☐ including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached	
1)  hereto or 2)  to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT</li> </ol>			Note the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application	
Notice of Preferences ofted (FTO-032)     Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• • •	
	Paper No./Mail Dat	tè	
<ol> <li>Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date</li> </ol>	7. 🛛 Examiner's Amendr	nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	ent of Reasons for Allo	w <b>an</b> ce
of Biological Material	9.		

Application/Control Number: 10/690,446 Page 2

Art Unit: 2611

### **EXAMINER'S AMENDMENT**

1. Claims 1-3, 5-7, 9-11, 13-15, and 17-21 are allowed.

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claim 5, lines 1-2, "the first receiver path comprises" has been changed to "the low resolution analog-to-digital converter is" to reflect the amendment of the precedent claim 1.

Claim 6, lines 1-2, "the second receiver path comprises" has been changed to "the high resolution analog-to-digital converter is" to reflect the amendment of the precedent claim 1.

Claim 10, line 11, "the data packets" has been changed to "the data packet" to avoid the lacking of antecedent basis.

Claim 10, line 15, "lower resolution" has been changed to "lower decoding resolution" to better relate to the invention as recited in the other independent claims 1, 18, and 21.

Claim 13, lines 1-2, "the first analog front end comprises" has been changed to "the low resolution analog-to-digital converter is" to reflect the amendment of the precedent claim 10.

Claim 14, lines 1-2, "the second analog front end comprises" has been changed to "the high resolution analog-to-digital converter is" to reflect the amendment of the precedent claim 10.

Claim 21, line 8, "a low resolution" has been changed to "a high resolution".

Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOUNG T. TSE whose telephone number is 571- 272- 3051. The examiner can normally be reached on Monday-Friday 10:00-6:30 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad H. Ghayour can be reached on 571- 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/YOUNG T. TSE/ Primary Examiner, Art Unit 2611